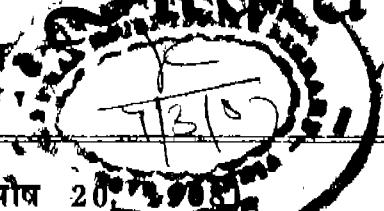




# भारत का राजपत्र

## The Gazette of India

प्राप्तिकार से प्रकाशित  
PUBLISHED BY AUTHORITY



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तद्दी दिल्ली, शनिवार, जनवरी १०, १९८७ (पौष २०, १९८६)

No. 2]

NEW DELHI, SATURDAY, JANUARY, 1987 (PAUSA 20, 1986)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

[Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड २

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

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PATENTS AND DESIGNS

Calcutta, the 10th January 198

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## CORRIGENDUM

The design No. 156763 in class 5 which was notified in the Gazette of India, Part III, Section 2 dated 8th November, 1986 in column 2 page 719 should be read as "Design No. 156763 in Class 1".

## REGISTRATION OF PATENT AGENT

The following person has been registered as Patent Agent:—

Shri Ajay Nahni,  
2089, Malviya Street,  
Bahadurpur,  
New Delhi-55.

## APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700017

The dates shown in brackets are the dates claimed under Section 135 of the Act.

The 1st December 1986

874/Cal/86. Siemens Aktiengesellschaft. An antenna duct for an antenna matching device.

875/Cal/86. Georg Fischer Aktiengesellschaft. Treatment vessel for treating molten metal alloys.

876/Cal/86. Novavis Intercontinental Ltd. Method for production of useful substances from soymeal. [Divisional date 12th July, 1984].

877/Cal/86. Klinger AG. Shut-off valve.

878/Cal/86. Adam Mullick. Method for hydro-insulation, gas-insulation and/or corrosion-insulation of Civil/Marine and other structures, and means for carrying out the same.

The 4th December 1986

879/Cal/86. Institut Elektrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR. Device for continuous winding of wire.

880/Cal/86. PHB Weserhutte AG. Mobile belt conveyor.

881/Cal/86. Indian Jute Industries Research Association. Softener machine for jute.

The 5th December 1986

882/Cal/86. Anand Swaroop Mahajan. A new proposal for the inprocess measurement of width of hot rolled wide strip of steel.

883/Cal/86. Zhdanovskiy Metallurgicheskiy Institut. Charging apparatus of blast furnaces.

884/Cal/86. Proizvodstvennoe Obiedinenie "Nevsky Zavod" Imeni V.I. Lenina. Impeller of centrifugal compressor.

885/Cal/86. Projects and Development India Limited. A process for the production of NP fertilisers having more than 90% of its  $P_2O_5$  in soluble form.

886/Cal/86. Projects & Development India Limited. A process for the manufacture of ketonisation catalyst for the conversion of ethyl alcohol to acetone.

The 8th December 1986

887/Cal/86. Ashes Sen Gupta. Medicinal Organic Massage Oil (given the name "CHIRANJIB").

888/Cal/86. Sunil Baran Kar. Gravity-powered fuel-less engine.

889/Cal/86. UHDE GMBH. Device for use in a process for the manufacture of a product gas containing hydrogen and carbon oxide.

890/Cal/86. Hoechst Aktiengesellschaft. Water-soluble triphendioxazine compounds, sulfonyl-containing precursors thereof, processes for the preparation thereof and use thereof as dyes.

891/Cal/86. Sonex Research Inc. Method and apparatus for disposal of Toxic wastes by combustion.

The 9th December 1986

892/Cal/86. B. V. Optische Industrie 'De Oude Delft'. Dosimeter for ionising radiation.

893/Cal/86. B. V. Optische Industrie 'De Oude Delft'. Piezoelectric attenuation tongue system for slit radiography equipment.

894/Cal/86. B. V. Optische Industrie 'De Oude Delft'. Dosimeter for ionising radiation.

895/Cal/86. Advanced Materials & Design Corporation. Method of forming high-strength-corrosion-resistant steel.

896/Cal/86. Mitsubishi Toatsu Chemicals, Incorporated. Control method of polymerization temperature.

897/Cal/86. Eaton Corporation. Clutch control system and clutch assembly using same.

898/Cal/86. Centro Sperimentale Metallurgico S.p.A. A continuous process for producing hot metal with reduced impurities.

899/Cal/86. Ton Cate Over-All Fabrics BV. Improvements in textile materials, (10th December, 1985) U.K.

900/Cal/86. Sri Tusher Kanti Ghose. A new approach to the Melting Pot to prevent iron contamination for melting Aluminium & Alloys and increase the working life of the Crucible.

The 10th December 1986

901/Cal/86. Fried Krupp Gesellschaft Mit Beschränkter Haftung. Process for producing coated molded bodies.

902/Cal/86. Rockwell Goldc GMBH. Automobile drum brake.

## APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 17th November 1986

887/Mas/86. SERGE BAJADA. "Apparatus for Testing the Sensory System in Humans and Animals (November 18th, 1985, Australia).

The 18th November 1986

888/Mas/86. CH. S. S. N. SASTRY. "Hand Cranked Telescopic Mast" 12 Meters Height.

889/Mas/86. P. P. SIVASANKARA PILLAY. "A Process for the Production of a coagulant utilising the liquid effluent from sulphate Route Titanium Dioxide Plant.

890/Mas/86. THE CHARLES STARK DRAPER LABORATORY INC. "A System for Controlling the Position of a Strip of Material along a First Axis with Respect to a Seam Joining Device." (Divisional to Patent Application No. 1014/Cal/1983).

891/Mas/86. TAKESHI HOYA. "Combined Complex Pumping Plant".

892/Mas/86. RANK TAYDOR HOBSON LIMITED. MEASUREMENT AND CONTROL APPARATUS. (December 12th 1985, U.K.).

893/Mas/86. COBARR S.P.A. "Process for the Production of High Molecular Weight Polyester."

The 19th November 1986

894/Mas/86. THE DOW CHEMICAL COMPANY, Two-Stage Coal Gasification Process.

895/Mas/86. MASCHINENFABRIK RIETER AG., Package Support. (December 24th, 1985, Great Britain).

896/Mas/86. OBERG ENTERPRISES, INC., "Quick Lockable Tilting Hoist Tackle".

The 21st November 1986

897/Mas/86. G. VENKATACHALAPATHY, "A Method for Winding Single Phase Capacitor".

898/Mas/86. DEGREMONT, "A Method and an Installation for the Purification of waste water, Notably of urban waste Water".

899/Mas/86. MERLIN GERIN, Control Device of a High Voltage Circuit Breaker Equipped with Closing Resistors.

The 24th November 1986

900/Mas/86. UPPINANGADY VARADARYA NAYAK, "An Attachment Device Particularly suited for climbing substantially Vertical Members such as a Pole or Stem".

901/Mas/86. Z. M. BHARUCHA, "Improved circuitry for a Fluorescent Tubelight".

902/Mas/86. SUMITOMO METAL INDUSTRIES LTD., "Method of Controlling the Stirring Strength and Flow rate of a Jet of Gas Blown Through a Lance onto a Molten Metal Surface".

The 25th November 1986

903/Mas/86. THE PLESSEY COMPANY PLC, "Method of Secured Communications in a Telecommunications System". (December 11th, 1985, United Kingdom).

904/Mas/86. BASF LACKE + FARBEN AG, Binders for Cathodic Electrocoating.

905/Mas/86. BASF LACKE + FARBEN AG, "Binders for Cathodic Electrocoating".

906/Mas/86. SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., "Process for Catalytic Devaing of more than one Refinery-Derived Lubricating base oil Precursor".

907/Mas/86. GUILFRAY MICHEL OF 136, Container Shaped in such Manner as to be Unoverturnable for Receiving a Liquid.

The 26th November 1986

908/Mas/86. NATIONAL STARCH AND CHEMICAL CORPORATION, Pressure Sensitive Adhesives Comprising Ethylene Vinyl Acetate Diethyl Malate Terpolymers.

909/Mas/86. GENERAL MOTORS CORPORATION, Multi-Ratio Power Transmission.

910/Mas/86. SYNTEX U.S.A. INC., Novel Stabilized Benzimidazole Derivatives.

911/Mas/86. INSTITUT FRANCAIS DU PÉTROLE A FRENCH BODY CORPORATE, "A System for Transmitting Energy Through an Apparatus Usable for Subsoil Prospection, Lowered Inside a Well or Drill Hole".

The 27th November 1986

912/Mas/86. ALBERT HANDTMANN MASCHINENFABRIK GMBH & CO., Process and Apparatus for Drawing Off Deformable Masses Containing Air.

913/Mas/86. MASCHINENFABRIK RIETER AG, Device for Winding up a Thread.

914/Mas/86. OWENS-ILLINOIS, INC., Closure for Containers.

915/Mas/86. OWENS-ILLINOIS, INC., Child Resistant Package with a Child Resistant Closure. (Divisional of Patent Application No. 285/Mas/84).

The 28th November 1986

916/Mas/86. KERALA ELECTRICAL AND ALLIED ENGINEERING CO. LTD., An Improved Alternator for use in Automobiles and the Like.

917/Mas/86. BESI AND CROMPTON ENGINEERING LTD., An Inter-locking Plug and Socket Switching Device.

918/Mas/86. LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, "Improvements Relating to Adjusters". (November 29th, 1985, United Kingdom).

919/Mas/86. LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, "Improvements Relating To Disc Brakes". (November 29th, 1985, United Kingdom).

920/Mas/86. LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, Improvements Relating To Disc Brakes". (November 29th, 1985, United Kingdom).

921/Mas/86. THE BOOTS COMPANY PLC, Therapeutic Compound. (December 17th, 1985, Great Britain).

922/Mas/86. KYORIN PHARMACEUTICAL CO. LTD., "A Process of Preparation of Quinolonecarboxylic Acid Derivatives". (Divisional of Patent Application No. 886/Mas/85).

## ALTERATION OF DATE

158706. (1246/Cal/83) Ante dated to 5th July, 1980.

158708. (1412/Cal/83) Ante dated to 4th July, 1980.

158728. (479/Mas/84) Ante dated to 8th March, 1982.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

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CLASS : 12-B 158699

Int. Cl. : C 21 d 9/14, 1/06, 1/22.

**A METHOD OF CASE HARDENING AN ARTICLE FORMED FROM CARBURIZING GRADE STEEL.**

Applicant : DANA CORPORATION, 4500 DORR STREET, P.O. BOX 1000, TOLEDO, OHIO 43697 U.S.A.

Inventors : 1. JOE R. MCKINNEY, 2. ROY G. SWAGGER.

Application No. 892/Cal/83 filed July 18, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**5 Claims**

A method of case hardening an article formed from carburizing grade steel, which comprises the steps of carburizing and finish machining the article, characterized by the steps of :

- (a) forging said article, and completely machine finishing said article to its final dimensions prior to commencing the heat treatment of said article;
- (b) carburizing the surface of said completely machine finished article at a temperature in the range of 1550° to 1745° F for a time period in the range of three to six hours to produce a case depth of carbon concentration of at least 10/1000 of an inch in the surface of said article;
- (c) oil quenching said article from a temperature of at least 1500° F in an oil bath having a temperature in the range of 80° to 130° F, for three to seven minutes;
- (d) tempering the quenched article at a temperature in the range of 300° to 400° F for a duration in the range of 1 to 1.5 hours; and,
- (e) in the total absence of any further material removing machining operations, work hardening by shot peening said carburized surface with case hardened steel shot to convert 80 to 95% of the retained austenite in said surface into untempered martensite in said surface into untempered martensite and to induce compressive stresses into the case hardened surface.

Compl. specn. 11 pages.

Drg. 1 sheet.

CLASS : 32-B; 40-B; 84-B 158700

Int. Cl. : B 01 j 11/22, 9/00.

C 07 c 1/04.  
C 10 l 1/04.

**PROCESS FOR THE PREPARATION OF HYDROCARBONS.**

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDTLAAN 30, THE HAGUE, THE NETHERLANDS.

Inventors : 1. AREND HOEK, 2. ANNIE HENDRIKA JOUSTRA, 3. JOHANNES KORNELIS MINDERHOUD, 4. MARTIN FRANCISCUS MARIA POST.

Application No. 898/Cal/83 filed July 19, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**10 Claims**

A process for the preparation of hydrocarbons by catalytic reaction of carbon monoxide with hydrogen, characterized in that a feed comprising H<sub>2</sub> and CO is contacted at elevated temperature and pressure with a catalyst which has been prepared starting from a mixture comprising a porous carrier

material, one or more cobalt compounds and a liquid, by kneading this mixture to form a paste, followed by removal of the liquid from the paste, and calcination and reduction of the composition thus obtained.

Compl. specn 19 pages.

Drg. Nil.

CLASS : 97-B & F 158701

Int. Cl. : H 05 b 7/10.

**ELECTRODE ASSEMBLY FOR ARC FURNACES.**

Applicant: ARC TECHNOLOGIES SYSTEMS LTD., BOX 61, GEORGETOWN, GRAND CAYMAN, CAYMAN ISLANDS, BRITISH WEST INDIES.

Inventors : 1. DR. DJETER ZOLLNER, 2. DR. HANS GEORG BAUER, 3. DR. INGE LAUTERBACH, 4. DR. THOMAS TAUBE, 5. HANS LADES, 6. SIEGFREID LIEBEL.

Application No. 916/Cal/83 filed July 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**10 Claims**

An electrode assembly for arc furnaces comprising :

- (a) an electrode shaft,
- (b) clamping means surrounding said electrode shell but spaced apart therefrom, said clamping means being positioned around a portion of the length of said shaft, with said clamping means including a clamping jaw configured for application of radial pressure;
- (c) spacing means around the circumference of said shaft, arranged between the electrode shaft and the clamping means, said spacing means comprising spacer segments having lateral openings between adjacent segments; and
- (d) electrically conductive contact elements, radially movable for contact with said electrode shaft, arranged within said lateral openings and at least in part in contact with said clamping jaw;

whereby application of radial pressure from said clamping jaw upon said contact elements presses said elements, and clamps said elements against said electrode shaft.

Compl. specn. 12 pages.

Drg. 2 sheets.

CLASS : 129-G 158702

Int. Cl. : B 23 b 27/00, 29/00.

**CUTTING HEAD FOR DRIFT ADVANCING MACHINES.**

Applicant : VOEST-ALPINE AKTIENGESELLSCHAFT, OF A-1011 VIENNA, FRIEDRICHSTRASSE 4, AUSTRIA.

Inventors : 1. GOTTFRIED TRAUMULLIER, 2. WILFRID MAIER, 3. FRANZ SCHOFFMANN, 4. HERWIG-WRULICH.

Application No. 971/Cal/83 filed August 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

Cutting head for drift advancing machines and comprising bits arranged on its circumference and having outlet nozzles for the discharge of cooling water, which outlet nozzles can be supplied with water via passages extending within the cutting head in axial direction thereof, characterized in that the passages extending within the cutting head (1) are designed as passages (14, 16; 22) extending through the cutting head (1) in axial direction thereof and being connected with the axially extending water supply bore (8) by substantially radial bores (9), radial bores (13) leading to the outlet nozzles opening into said passages, and in that the passages (14, 16; 22) extending through the cutting head in axial direction thereof open at least one front surface of the cutting head (1) into at least one bore aligned with these passages, said bore being closable by detachable closure members (15) (Figure 2; Figure 3).

Compl. specn. 10 pages.

Drg. 3 sheets.

CLASS : 153

158703

Int. Cl. : B 21f 21/00.

## METHOD AND APPARATUS FOR CLEANING WIRE AND THE LIKE.

Applicant : PAROMEC ENGINEERING LIMITED OF BILTON CENTRE, CORONATION ROAD, HIGH WYCOMBE, BUCKINGHAMSHIRE HP12 3TA, ENGLAND, U.K.

Inventors : 1. PETFR ROBERT GOUGH.

Application No. 974/Cal/83 filed August 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A method of cleaning an elongate strip which comprises passing the same through a die dimensioned to provide a working clearance about the strip and between it and the die, holding the strip under tension whilst so passed, causing transverse vibratory movement of the strip relative to the die so that a number of points around the surface of the strip contact the die, and passing a fluid through the die to displace material removed from the strip surface.

Compl. specn. 7 pages.

Drg. 1 sheet.

CLASS : 127-H; 153

158704

Int. Cl. : B 24 c 3/26.

## LINK AND FLIGHT ASSEMBLY FOR BLAST TREATMENT APPARATUS.

Applicant : WHEELABRATOR-FRYE INC., OF 400 SOUTH BYRKIT AVENUE, MISHAWAKA, INDIANA-46544, UNITED STATES OF AMERICA.

Inventor : 1. DONALD I. ANSBAUGH.

Application No. 1032/Cal/83 filed August 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A link and flight assembly for a blast cabinet conveyor comprising :

- (a) a flight having a first element thereof formed of material which is highly resistant to blast treatment and a backer bar secured to the rear of said first element;
- (b) a pair of links including means for interengaging other links to form a conveyor belt of link and flight assemblies and means for securing said links to both ends of said flight only to said backer bar, wherein only said first element of the

flight is formed of blast resistant material, the links, backer bar and securing means being formed of lower cost, less blast resistant materials.

Compl. specn. 10 pages.

Drg. 2 sheets.

CLASS : 32-C; 39-C

158705

Int. Cl. : C 08 f 27/00.

## A CROSSLINKABLE FOAMABLE COMPOSITION.

Applicants : 1. BATA LIMITED, 59 WYNFORD DRIVE, TORONTO, ONTARIO, CANADA M3C 1K3. 2. E. I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE 19898, UNITED STATES OF AMERICA.

Inventor : 1. JOHN RYS-SIKORA.

Application No. 1164/Cal/83 filed September 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A crosslinkable foamable composition comprising :

- (a) 5 to 95 weight per cent based on polymer weight of a copolymer of
  - (i) ethylene;
  - (ii) 1 to 60 weight per cent based on copolymer of a softening monomer selected from the group consisting of unsaturated mono- or di-carboxylic acids of 3-20 carbon atoms, esters of said unsaturated mono- or di-carboxylic acids, vinyl esters of saturated carboxylic acids where the acid group has 2-18 carbon atoms, vinyl alkyl esters wherein the alkyl group has 1-18 carbon atoms, vinyl or vinylidene halides, acrylonitrile, methacrylonitrile, norbornene, alpha olefins of 3-12 carbon atoms and vinyl aromatic compounds; and
  - (iii) 1 to 30 weight per cent based on copolymer of a member of the group consisting of carbon monoxide and sulfur dioxide;
- (b) 5 to 95 weight per cent based on polymer weight of a vinyl or vinylidene halide polymer;
- (c) 0.5 to 20 weight per cent based on the blend of a conventional chemical blowing agent; and when desired,
- (d) 0.2 to 5.0 per cent based on the blend of a free radical crosslinking agent.

Compl. specn. 17 pages.

Drg. Nil.

CLASS : 32-F; 55-E.

158706

Int. Cl. : A 61 k 27/00; C 07 d 27/00.

## METHOD FOR THE PREPARATION OF 1-CYCLOHEXENYL-METHYL 2-CHLOROETHYL PYRROIDINE.

Applicant : SOCIETE D'ETUDE SCIENTIFIQUES ET INDUSTRIELLES DE L'ILE-DE-FRANCE, OF 46, BOULEVARD DE LATOUR-MAUBOURG, 75-PAIRS 7<sup>e</sup>, FRANCE.

Inventors : 1. MICHEL THOMINET, 2. JACQUELINE FRANCESCHINI.

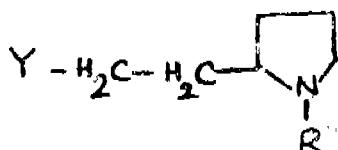
Application No. 1246/Cal/83 filed October 10, 1983.

Division of Application No. 779/Cal 80 dated 5th July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

Method for the preparation of 1-cyclohexenylmethyl 2-chloroethyl pyrrolidine of Formula (II) shown below



## Formula II

wherein R is cyclohexenylmethyl and Y is chloro, which comprises reacting 2-(2-pyrrolidinyl) ethanol with 1-bromo-methyl cyclohexene, and then treating the so obtained 1-cyclohexenylmethyl 2-hydroxyethyl pyrrolidine with thionyl chloride.

Compl. Specn. 6 pages.

Drg. 1 sheet

CLASS : 190-D.

158707

Int. Cl. F 03 d 11/00.

THE BLADE PITCH ANGLE CONTROL SYSTEM FOR  
A WIND TURBINE-GENERATOR.

Applicant : UNITED TECHNOLOGIES CORPORATION,  
AT 1 FINANCIAL PLAZA, HARTFORD, CONNECTICUT  
06101, UNITED STATES OF AMERICA.

Inventors : 1. KERMIT EVAN HARNER, 2. FRANK  
RICHARD NIESSEN, 3. ROBERT SHERMAN.

Application No. 1365/Cal/83 filed November 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 claims

The blade pitch angle control system for a wind turbine-generator comprising a rotor having a plurality of variable pitch airfoil blades fixed thereto and driving an electric generator through a drive train, said blade pitch angle control system including control means providing a reference signal indicative of desired blade pitch angle at less than rated wind speed conditions, said control means being characterized by :

means providing an output signal indicative of actuator wind turbine output;

means providing a frequency signal indicative of rotational frequency of said wind turbine; and

signal processing means responsive to said output and frequency signals for providing a blade pitch angle reference signal indicative of a blade pitch angle setting corresponding to attainment by said wind turbine of said output at less than rated wind velocity.

Compl. Specn. 13 pages. Drg. 1 sheet.

CLASS : 32-F2a; 60-X, d.

158708

Int. Cl. A 61 k 27/00; C 07 c 63/00.

A PROCESS FOR PREPARING THE N-R-D-GLUCAMINE SALT OF D-2-(6-METHOXY-2-NAPHTHYL) PROPIONIC ACID.

Applicant : SYNTEX CORPORATION OF BANK OF AMERICA, BUILDING, NINTH FLOOR, CALLE 50, PANAMA, REPUBLIC OF PANAMA AND HAVING A REAL AND EFFECTIVE INDUSTRIAL ESTABLISHMENT AT 3401 MILLVIEW AVENUE, PALO ALTO, CALIFORNIA 94304, U.S.A.

Inventor : I. PERCY G. HOLTON.

Application No. 1412/Cal/83 filed November 17, 1983.

Division of Application No. 774/Cal/80 dated 4th July, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 claims

A process for preparing by resolution the N-R-D-glucamine salt of d-2-(6-methoxy-2-naphthyl) propionic acid wherein R is alkyl of 2-36 carbon atoms or cycloalkyl of 3-8 carbon atoms comprising :

preparing a mixture of d-and 1-2-(6-methoxy-2-naphthyl) propionic acid or soluble salts thereof and 50 to 100 molar percent of said N-R-D-glucamine or salts thereof based on said d-and 1-acid in an inert solvent such as herein described to form the N-R-D-glucamine salts of d-and 1-2-(6-methoxy-2-naphthyl) propionic acid, the N-R-D-glucamine salt of d-2-(6-methoxy-2-naphthyl) propionic acid being significantly less soluble than the N-R-D-glucamine salt of 1-2-(6-methoxy-2-naphthyl) propionic acid in said inert solvent at the temperature of crystallization, and

crystallizing the N-R-D-glucamine salt of d-2-(6-methoxy-2-naphthyl) propionic acid to separate it from the N-R-D-glucamine salt of 1-2-(6-methoxy-2-naphthyl) propionic acid.

Compl. Specn. 58 pages. Drg. nil.

CLASS : 172 C<sub>1</sub> & 172 C<sub>6</sub>.

Int. Cl. D 01 9 15/00.

A STRIPPING ROLLER SYSTEM FOR STRIPPING THE CARDED WEB OF FIBRES FROM THE DOFFER OF A CARDING MACHINE.

Applicant & Inventor : ARUMUGAM VENKATACHALAM OF VAMPTEX TRADERS, 115-A, RACE COURSE, COIMBATORE 641 018, TAMIL NADU, INDIA.

Application No. 35/MAS/83 filed February 14, 1983.

Complete Specification left on 14th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 2 claims

A stripping roller system for stripping the carded web of fibres in full width from the doffer of a textile carding machine comprising a first stripping roller covered with card clothing disposed close to the doffer for stripping the web therefrom in full width, the first stripping roller being smaller than the doffer and rotating in the same direction as the doffer and a spaced second stripping roller covered with card clothing the said rollers rotating in the same direction, characterised by a guide roller covered with card clothing for onwardly directing the web from the first stripping roller, the guide roller being smaller than the first stripping roller and disposed close to the first stripping roller and rotating in the same direction as, the first and second stripping rollers; a pair of spirally grooved uncovered rollers rotating towards each other for receiving the web directed by the guide roller therebetween, the said spirally grooved rollers being disposed close to each other and to the second stripping roller, but smaller than the second stripping roller, the said spirally grooved rollers being located between the first and second stripping rollers; and a pair of uncovered rollers disposed close to each other and below the second stripping roller, each of the said uncovered rollers being of substantially the same size as each of the spirally grooved rollers, the web from the second stripping roller passing out through the gap between the said uncovered rollers in a condensed state.

(Provisional Specn. 3 pages. Drg. 1 sheet.)

(Compl. Specn. 6 pages. No. Drg. sheet).

CLASS : 47-C.

158710.

INT. CL. C 10 j 3/00 &amp; B 01 j 7/00.

## A BIOGAS PLANT.

Application & Inventor : KOTTAYAM KADANGODF ARUM KRISHNAN, NO. 16, 10TH AVENUE, JIARRJNG, TON ROAD, MADRAS-600 030, TAMIL NADU.

Application No. 61/Mas/83 filed March 16, 1983.

Complete Specification left June 16, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 7 Claims

A biogas plant comprising an inclined vessel constituted by a plurality of segments bolted together, the vessel having an inlet for entry of slurry and an outlet therefor; a gas discharge pipe communicating with the vessel at the gas collection region thereof characterised by a baffle provided within the vessel; bellows connecting the gas discharge pipe to the vessel; and a combined moisture trap and carbondioxide scrubber connected to the gas discharge pipe, the scrubber being constituted by a container filled with lime water, whereby the gas leaving the vessel through the bellows and gas discharge pipe, passes through the lime water to emerge free of carbondioxide and moisture.

(Prov. —4 pages; Com.—6 pages; Drwgs.—2 sheets)

CLASS : 20-B &amp; 146-C

158711.

INT. CL. G 09 b 27/02.

## A PLANETARY MODEL WORKING IN A VERTICAL PLANE.

Applicant & Inventor : DINKAR MAHADEO APTE, MANORAMA SADAN, WADA AWAR ANGOL, BELGAUM-590 007, KARNATAKA STATE.

Application No. 74/Mas/83 filed April 2, 1983.

Complete Specification left : March 29, 1984.

Application Post—dated to March 29, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 1 Claim

A planetary model working in a vertical plane comprising centrally located Sun, which is a small bulb connected to dry battery cells, a circular board carrying on its periphery the planet Earth on its axis with known inclination, the said Earth having articulately connected its Moon, characterised in that the lower half of the planet Earth is heavier than the upper half which is in the form of a hollow shell arrangement being such that while rotating around the Sun, the heavier portion of the Earth is always downwards in position whereby without any mechanical means the Earth is capable of rotating around the Sun so that once the Earth is nearer the Sun and once away from the Sun to form various celestial phenomenon, the entire model is used by the teacher for teaching movement of planets while keeping the model in upright position.

(Com.—5 pages:

Drwgs.—1 sheet)

CLASS 6A<sub>1</sub>

158712

INT. CL. F 04 b 9/00, 35/04

## A VARIABLE STROKE LENGTH PORTABLE COMPRES- SOR.

Applicant & Inventor : RENGANATHA NARAYANAN, 1, THIRUVENGADAM STREET, RAJA ANNAMALAI-PURAM, MADRAS-600 028, TAMIL NADU, INDIA.

Application No. 116/MAS/83 filed May 27, 1983.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch

## 3 Claims

A variable stroke length portable compressor consisting of a cylinder and a plunger with an inlet chamber at one end of the cylinder to receive filtered air from the atmosphere and an inductive coil assembly at the other end of the cylinder, said assembly being cooled by a cooling fan and energised to attract the plunger which is provided with spring to enable it to reciprocate to and fro within the cylinder thereby causing compression, the output of the compressor being controlled by a means for varying the input current of the inductive coil to achieve variation in the electro magnetic force and thereby varying the stroke length of the plunger.

(Comp. Specn. 7 pages

Drgs. 2 sheets)

CLASS 206A

158713

INT. CL. H 01 q 9/20, 9/44

## AN OMNIDIRECTIONAL VERTICALLY POLARISED DIPOLE ARRAY ANTENNA SYSTEM.

Applicant & Inventor : THIRUVENKATA KRISHNAN, 234, AVVAI SHANMUGAM ROAD, MADRAS-600 086, TAMIL NADU, INDIA.

Application No. 137/MAS/83 filed June 21, 1983.

Complete Specification left on 21st September, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 9 Claims

An omnidirectional vertically polarised dipole array antenna system for operating in VHF and UHF bands comprising four spaced pairs of folded dipoles mounted on a vertical boom, each pair of dipoles being disposed in a plane perpendicular to that in which the adjacent pair of dipoles is disposed, the dipoles of a pair being positioned opposite to each other, quarter wave length apart, the dipoles of a pair being excited in phase and currents being driven in similar directions therein.

(Provisional Specn. 7 pages

Drgs. 5 sheets)

(Compl. Specn. 8 pages

Drg. 1 sheet)

CLASS : 63-I; 126-A; 133-A &amp; 206-E

158714

INT. CL : H 02 p 7/24.

## A DEVICE FOR INDICATION, MEASUREMENT AND/OR CONTROL OF MECHANICAL TORQUE DELIVERED BY A PRIME MOVER INDUCTION MOTOR.

Applicant & Inventor : CHIRUKANDTH BALGOPAL, C/o DYNASPEDE INTEGRATED SYSTEMS PVT. LTD., OF 136-A, SIPCOT INDUSTRIAL COMPLEX, HOSUR-635 126, TAMIL NADU.

Application No. 145/Mas/83 filed June 28, 1983.

Complete Specification left August 12, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 2 Claims

A device for indication, measurement and/or control of mechanical torque delivered by a prime mover induction motor comprising a computing circuit which is connected



nected to an L-shaped lever arrangement and adapted to sit on and close the narrow outlet fluid tight and a float mounted on the descending free arm of the lever such that as the fluid inside the cistern reaches the desired level the float goes up and the spindle sits on the outlet and as the outlet and as the fluid level falls down the float also goes down keeping to the level of the fluid and the outlet is gradually opened.

Compl. specn. 7 pages.

Drg. 3 sheets  
two sheets of size  
33.00 cms. by  
41.00 cms. (each)

CLASS : 77-B<sub>1</sub>

158719

Int. Cl. : C 11 b 1/06.

**A PROCESS AND APPARATUS FOR PREPARING MUSTARD OIL OF A HIGH DEGREE PUNGENCY.**

Applicant & Inventor : ERRAMILLY GOPALA KRISHNAMURTI, C/O M/S KRISHNA ENGINEERING WORKSHOP, CHARMINER FACTORY ROAD, HYDERABAD-500 020, ANDHRA PRADESH.

Application No. 26/Mas/84 filed January 17, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims. No drawing.

A process of producing mustard oil of a high degree pungency wherein :

the mustard seed is first pulverised in a pulveriser; the pulverised mustard seed is put in a steam bath and subjected to mechanical agitation, characterised in;

that the said seed is then pressed in one or more double chamber expellers which are provided with hollow worms;

and that the said hollow worms are maintained cool at temperature between 30°C and 40°C by a flow of chilled water through them and recovering the extracted oil by known means.

An apparatus for producing mustard oil of a high degree pungency comprising :

a pulveriser which is a horizontal drum with perforated sheet at bottom and replaceable jolleys of different sizes of perforation, and is provided with knife edged beaters;

one or more chambers provided with steam inlet and pipes;

the said chamber or chambers having a common central shaft provided with a number of radial rods with flat tops at different lengths which are capable of rotation at different levels inside the chamber or chambers;

one or more oil expellers, each of the expellers being a coaxially placed two chamber unit having a central hollow shaft on which are fitted hollow worms.

Compl. specn. 12 pages.

CLASS : 116-G

158720

Int. Cl. : B 65 g 17/36, 17/42.

**ATTACHMENT DEVICE FOR FIXING TWO SUCCESSIVE BUCKET ON A BUCKET CONVEYOR.**

Applicant : FIVES-CAIL BABCOCK, 40, RUE MONTALIVET, 75383, PARIS, CEDEX 08, FRANCE.

Inventor : RENE CHEVER.

Application No. 88/Mas/84 filed February 9, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2—407GI/86

6 Claims

An attachment device for fixing two successive buckets on a conveyor band arranged for movement in a direction of conveyance, each one of the buckets having a forward and a rear end in said direction, which comprises :

- (a) a Plate having one side facing the conveyor band and another side opposite thereto,
- (1) the one side of the plate facing the conveyor being affixed to the conveyor band,
- (b) a bearing element integral with said plate and projecting from the opposite side of the plate away from the conveyor band,
- (d) a first pivot linking the rear end of a leading one of the successive buckets, in the direction of conveyance, to the bearing element;
- (d) a connecting rod having two ends; and
- (e) respective pivots linking one end of the connecting rod to a piece of the attachment device carrying the first pivot and linking the other end of the connecting rod to the front end of a trailing one of the successive buckets, in the direction of conveyance.

Compl. specn. 8 pages.

Drg. 2 sheets.

CLASS : 83-A. 1

158721

Int. Cl. : A 23 1 1/00.

**A METHOD OF PRODUCING DIETARY FIBRE PRODUCT FROM CEREAL GRAIN HUSKS.**

Applicant : TRICUM AB, OF P.O. BOX 14, S-263 01, HOGANAS, SWEDEN.

Inventor : LENNART HOLMGREN.

Application No. 91/Mas/84 filed February 10, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims. No drawing.

A method of producing a dietary fibre product characterized in mixing husks of cereal grain with water, adding enzymes amylase, protease and fytase, adjusting the pH value of the mixture at 55°C for 6 to 12 hours, dewatering in a known manner, washing and drying the mixture to obtain a product with fibre content of at least 70 percentage by weight and a phytic acid content of less than 0.5 percentage by weight.

Compl. specn. 15 pages.

CLASS : 94-A & 167-D

158722

Int. Cl. : B 02 c 19/11, 21/00 & B 04 b 3/00.

**IMPROVEMENTS IN OR RELATING TO GAS-SWEPT TUBE MILLS.**

Applicants : F. L. SMIDTH & CO. A/S., 77, VIGERSLEV ALLE, DK-2500, VALBY, COPENHAGEN, DENMARK.

Inventor : JAN FOLBERG.

Application No. 98/Mas/84 filed February 15, 1984.

Convention date : February 15, 1983. (No. 8304147; United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A gas swept tube mill of the kind having at least one tubular grinding chamber which is rotatable about its axis that is substantially horizontal; a discharge chamber which is positioned at an end of the grinding chamber and through which grinding material is swept from the grinding chamber

to an outlet; a separately driven separator rotor which is positioned in the discharge chamber coaxially with the grinding chamber and has radially outwardly extending vanes; and a scooping device for returning insufficiently ground material from the discharge chamber to the grinding chamber; characterised in that a material-collecting casing is mounted on and circumferentially around the vanes of the separator rotor, the inner surface of the material-collecting casing being flared in the axial direction towards the scooping device and grinding chamber.

Compl. Specn. 8 pages.

Drgs. 1 sheet

CLASS : 127C

158723

Int. Cl. F 16 g 5/16.

#### POWER TRANSMITTING V-BELT.

Applicant : MITSUBOSHI BELTING LTD., NO. 1-21, HAMAZOEDORE 4-CHOME, NAGATA-KU, KOBE-SHI, HYOGO, JAPAN, A JAPANESE COMPANY.

Inventors : (1) HIDEAKI TANAKA, (2) KUNIHIRO FOJITA (3) HIROSHI AGAWA (4) MITSUHARU USHIRODA.

Application No. 101/MAS/84 filed February 17, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 claims

A power transmitting V-belt characterising : a tension-resisting layer; an upper core rubber layer overlying said tension-resisting layer and acting as an extension portion; a truncated core rubber layer underlying said tension-resisting layer and acting as a compression portion; a rubberized canvas sheath covering the laminated structure of said tension resisting layer, said upper core rubber layer and said truncated core rubber layer; and at least one layer of reinforcing canvas underlying said truncated core rubber layer and covered with said canvas sheath.

Compl. Specn. 10 pages. Drg. 1 sheet.

CLASS : 40-F & 139-B.

158724

Int. Cl. B 01 j 9/06 & C 01 b 25/02.

#### APPARATUS FOR MAKING RED PHOSPHORUS.

Applicant : HOECHST AKTIENGESELLSCHAFT, OF D 6230, FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY, A CORPORATED ORGANIZED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) URSUS THUMMLER, (2) HUGO WERNER.

Application No. 161/Mas/84 filed March 13, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 claims

Apparatus for making red phosphorus by subjecting molten yellow phosphorus to a thermal conversion reaction, which comprises a drum (1), the drum being filled with ball-shaped metallic material and provided with a first and a second rotatably mounted hollow shafts; a first rotatable feed duct (5) and a second rotatable feed duct (6) being tightly connected, to said first hollow shaft (2) and said second hollow shaft (3), respectively; a floor-anchored torque-supporting means (7) being secured to each of the two

rotatable feed ducts (5, 6); a first open-ended stationary tube (8) passing centrally through said first rotatable feed duct (5) and also through said first hollow shaft (2), terminating with its open end at a point where said first hollow shaft (2) opens into said drum (1), a second unilaterally closed stationary tube (12) passing centrally through said second rotatable feed duct (6) and also through said second hollow shaft (3), terminating with its closed end at a point where said second hollow shaft (3) opens into the said drum (1); and a pressure metering means (15) being mounted in a lateral opening provided in said second rotatable feed duct (6).

Com. 8 pages; Drgs. 1 sheet.

CLASS : 55-F & 83-A4

158725

Int. Cl. C 12 d 13/06.

#### PROCESS FOR THE PRODUCTION OF EDIBLE PROTEIN CONTAINING SUBSTANCES.

Applicant : BANKS HOVIS McDougall, PLC., OF KING EDWARD HOUSE, P.O. BOX 178, 27/30, KING EDWARD COURT, WINDSOR, BERKSHIRE SL4 1TU, GREAT BRITAIN.

Application No. 196/Mas/84 filed March 24, 1984.

Appropriate Office ofr Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 claims. No drawing

A process for the production of an edible protein-containing substance having a linear hyphae with little or no chain-branching comprising the steps of inoculating strains of *Fusarium graminearum* schwabe into a culture medium kept in a fermenter for a continuous fermentation at a temperature between 25°C and 34°C, the fermenter being under a pressure of 101 kN/m<sup>2</sup> to 505 kN/m<sup>2</sup>, the fermentation occurring at a pH of 3.5 to 7, said culture medium comprising carbohydrates, Mg, K, PO<sub>4</sub>, Fe, Zn, Mn and Cu ions as growth-promoting substances, in excess, aerating the fermentation at a flow rate of 0.32 to 1.2 litres per minute per litre volume of the fermenter, such that the oxygen is the limiting nutrient but supports cell concentration in the culture without the occurrence of anaerobic growth, to provide hyphae of longer length with little or no chain branching and recovering the edible protein-containing substance in a conventional manner.

(Com. 11 pages).

CLASS : 32-F.2(b) & 55-D.2

158726

Int. Cl. C 07 d 85/86.

#### A PROCESS FOR THE PREPARATION OF ESTERS OF 3-FURAZEN-CARRAMIC ACID.

Applicant : ANIC S.p.A., OF 55, VIA RUGGERO SETTIMO, PALERMO, ITALY.

Inventors : (1) RENATO FRANCESCO, (2) ROBERTA FEUTERO, (3) VITTORIO MESSORI, (4) ANNA PELUFFO.

Application No. 226/Mas/84 filed March 31, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 2 claims

A process for the preparation of esters of 3-furazan-carbamic acid having the general formula given in Fig. 1,

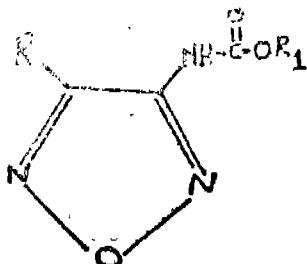


Fig. 1

wherein R is a straight chain or branched alkyl group with 1 to 6 carbon atoms or the phenyl group, R<sub>1</sub> is a straight chain or branched alkyl group with 1 to 10 carbon atoms (substituted if required by halide or phenyl group), an alkenyl group, an alkynyl group, a cycloalkyl group or the phenyl group characterized by reacting the 3-amino-4-R-furazan with the R<sub>1</sub>-chloroformate, wherein R and R<sub>1</sub> have the meaning of the general formula given in Fig. 1, in a molar ratio of 1:2, at a temperature of from 0°C to 100°C, for a period of time from 2 to 4 hours.

Com.—16 pages.

CLASS : 32-F.2(c)

158727

Int. Cl. C 07 c 155/08.

PROCESS FOR THE PREPARATION OF THIOCARBAMIC ACID ESTERS HAVING HERBICIDAL EFFECT.

Applicant : NITROKEMIA IPARTELEPEK, OF FUZFOGYARTELEP, pf. 45. 8184, HUNGARY.

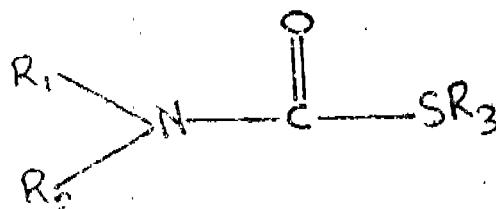
Inventors : (1) JENO PELYVA, (2) ANTAL GAAL, (3) ISTVAN VECSEY K, (4) SANDOR LASZLO, (5) LAJOS SCIMER, (6) JOZSEF BARACSKAI, (7) DEZSO SEBOK.

Application No. 450/Mas/84 filed June 20, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 4 claims

Process for the continuous preparation of thiocarbamic acid esters of the general formula I shown in the accompanying drawings,



Formula I

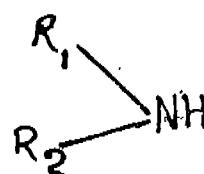
wherein :

R<sub>1</sub> is ethyl or n-propyl;

R<sub>2</sub> stands for n-propyl or cyclohexyl; and

R<sub>3</sub> represents ethyl or n-propyl

by reacting a secondary amine of the general formula II shown in the drawings,



Formula II

wherein R<sub>1</sub> and R<sub>2</sub> have the same meaning as stated above with carbonyl sulfide and alkylating the thiocarbamic acid amine salt thus obtained which comprises reacting the secondary amine of the general formula II and carbonyl disulfide at a temperature between 30°C and 50°C in a counter-current wherein the molar ratio of carbonyl sulfide at the secondary amine is 1:2 and maintaining the reaction mixture formed at 60-65°C under passing carbonyl disulfide through the mixture, continuously removing the thiocarbamic acid amine salt free from starting materials thus obtained, and thereafter alkylating the same with an alkyl halide or dialkyl sulfate of the general formula III



wherein R<sub>4</sub> is as stated above, X stands for sulphate ion or halide ion, separating the salt obtained after alkylation from the thiocarbamic acid ester by washing with water and dehydrating the ester by fractionated distillation.

Com.—18 pages.

CLASS : 123

158728

Int. Cl. A 01 n 7/00

A COMPOSITION TO PRETREAT CUTTINGS SUCH AS TEA CUTTINGS, SEMI-HARD WOOD CUTTING OF ORCHARD, FLOWER CROPS AND A PROCESS FOR PREPARATION THEREOF.

Applicant : THE UNITED PLANTERS' ASSOCIATION OF SOUTHERN INDIA, OF "GLENVIEW", P.B. NO. 11, COONOOR-643 101, NILGRIS, TAMIL NADU, INDIA.

Inventor : VUPPULURI SURYANARAYANA SHARMA.

Application No. 479/Mas/84 filed July 3, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 17 Claims. No drawing.

A composition to pretreat cuttings of orchard and flower crops comprising a subsoil of latosol origin prepared by a process as claimed in Application No. 51/Mas/82 having pH within the range of 3.5 to 4.2 and hormonal compounds such as hereinbefore defined.

A process for preparing a pretreating composition for cuttings such as tea cuttings, semi-hard wood cuttings of orchard and flower crops comprising (a) adding a hormonal compound such as hereinbefore defined to a subsoil of latosol origin having pH 3.5 to 4.2 prepared according to the process claimed in application No. 51/Mas/82, (b) mixing the resultant product of step (a) thoroughly by frequent stirring to form a paste, and (c) drying the paste formed at the end of step (b) at ambient temperature and then subjecting the thus dried paste to grinding to form fine powder.

(Comp.—7 pages).

CLASS : 172-C,

158729

Int. Cl : D 01 g 27/00.

## METHOD AND APPARATUS FOR PRODUCING A TRANSPORTABLE BODY OF TEXTILE FIBER SLIVER.

Applicant : MASCHINENFABRIK RIETER AG, OF WINTERTHUR, SWITZERLAND.

Inventor : 1. PETER OEHY.

Application No. 318/Cal/82 filed March 22, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

Method of producing a transportable body of textile fiber sliver, comprising the steps of delivering the formed sliver as a longitudinally moving strand and depositing the sliver in the form of cycloid-type loops into a can, which rotates about its longitudinal axis forming the axis of rotation, in which method the fiber sliver is guided through a funnel of a funnel gear wheel, which rotates about a rotational axis parallel to the rotational axis of the can, and additionally the mutual distance of the rotational axes of the can and of the funnel gear wheel is varied owing to a lateral displacement of the can in a direction at right angles with respect to the axes, characterized in that the rotational speed of the can (11) varies in function of the distance between the axes (13,32) of the can (11) and of the funnel gear wheel (31) and, as the distance between these axes (13,32) is minimum, the can (11) is rotated at maximum rotational speed and, as the distance between these axes (13,32) is maximum, the can (11) is rotated at minimum rotational speed.

Compl. Specn. 18 pages.

Drg. 5 sheets.

CLASS : 14-A<sup>2</sup>

158730

Int. Cl. H 01 m 3/04

## STORAGE BATTERY.

Applicant : YUASA BATTERY COMPANY LIMITED, 6-6, JOHSAICHO, TAKATSUKI CITY, OSAKA PREFECTURE, JAPAN.

Inventor : 1. ATSUSHI YOKOGI.

Application No. 1032/Cal/82 filed September 6, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A storage battery comprising a positive plate, a negative plate and a separator, characterized in that a bandshaped separator is embossed to form diamond-shaped projections on one surface of the separator, the projections being provided in a checker pattern, said bandshaped separator being arranged zigzag between the positive plate and the negative plate by bending it at each plate edge having a lug.

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 128-G, I.

158731

Int. Cl : A 61 h 31/00.

## APPARATUS FOR SUPPLYING HEATED AND HUMIDIFIED AIR TO THE NOSTRILS OF PATIENTS.

Applicant : YEDA RESEARCH &amp; DEVELOPMENT CO. LTD., OF P.O. BOX 95, REHOVOT, ISRAEL.

Inventors : 1. ANDRE LWOFF, 2. AHARON YERUSHALMI 3. IRUN ROBERT COHEN, 4. GIDEON BEN MOSHE, 5. JACK PENNEL.

Application No. 1137/Cal/82 filed September 30, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 24 Claims

Apparatus for delivering a stream of heated humidified air to the nasal mucosa of a patient comprising :

means for providing a supply of air under pressure; a water reservoir; and

a patient borne outlet member which comprises a remote travelling unit, the travelling unit being connected to the means for providing and comprising;

controllable means for heating the air;

means for injecting water from the reservoir under pressure into the stream of air; and

a nozzle containing a temperature sensor, for control of said controllable means, from which a stream of heated, humidified air can be directed towards the nostrils of the patient on a non-contacting, non-invasive basis.

Compl. Specn. 14 pages

Drg. 8 sheets.

158732

CLASS : 126-B

Int. Cl : E 21 b 47/00

## METHOD FOR CONDITIONING THE OPERATION OF AN APPARATUS FOR PRODUCING TANGIBLE IMAGE LOGS OF FINE FEATURES OF A BOREHOLE WALL PENETRATING AN EARTH FORMATION AND APPARATUS FOR CARRYING OUT THE SAME.

Applicant : SCHLUMBERGER LIMITED, AT 277 PARK AVENUE, NEW YORK, NEW YORK 10017, U.S.A.

Inventors : 1. MICHAEL PAUL EKSTROM, 2. DAVID SO KEUNG CHAN.

Application No. 1306/Cal/82 filed November 6, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 21 Claims

A method for conditioning the operation of an apparatus for producing tangible image logs of fine features of a borehole wall penetrating an earth formation with a tool that is suspended from a cable inside the borehole which penetrates an earth formation characterized by the steps of :

generating signals which represent a high spatial resolution measurement of a characteristic of said borehole wall and in the aggregate represent comparable high resolution features of said characteristic over an effectively continuous vertical and circumferential segment of the borehole wall;

converting said high spatial resolution signals to signals which represent said characteristic as a linear function of borehole depth; and

forming from said latter signals a tangible visual image as a linear function of borehole depth wherein the image has a grey scale with which fine features of the characteristic of said segment of the borehole wall are visually enhanced.

Compl. Specn. 33 pages

Drg. 10 sheets.

158733.

CLASS : 128-G

Int. Cl : A 61 b 19/00.

## HEMOSTAT WITH BLOOD FLOW SENSOR.

Applicant &amp; Inventor : HARVINDER SAHOTA, AT 3861 WISTERIA, SEAL &amp; BEACH, CALIFORNIA 90740, UNITED STATES OF AMERICA.

Application No. 1450/Cal/82 filed December 16, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims

A hemostat for restricting flow of blood in a blood vessel characterized by :

- (a) a mounting fixture;
- (b) an arm adjustably mounted to the mounting fixture;
- (c) a non-inflatable pressure pad mounted to said arm for applying pressure to said blood vessel; and
- (d) an electronic sensor mounted with said pressure pad for detecting blood flow through the vessel, the sensor being responsive to the rate of blood flow through the vessel and providing an output signal in response thereto.

Compl. Specn. 24 pages. Drg. 4 sheets.

CLASS : 107-G

158734

Int. Cl. : F 16 m 7/00.

**A METHOD FOR THE MANUFACTURE OF DIESEL INTERNAL COMBUSTION ENGINE, AND INTERNAL COMBUSTION ENGINE MANUFACTURED THEREBY.**

Applicant : ROBERT BOSCH GMBH, 7000 STUTTGART 1, POSTFACH 50, FEDERAL OF GERMANY.

Inventor : 1. GUNTER KAMPICHLER.

Application No. 1474/Cal/82 filed December 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 16 Claims

In a method for manufacture of a diesel internal combustion engine, the procedure of mounting at least one single cylinder plug-in fuel injection pump to the said engine, in which an oblique-edge-controlled plug-in pump provided with a fastening flange on the pump housing is, before fitting to an engine, adjusted on a test bench with the use of a test stand to give a desired delivery quantity with the pump delivery quantity adjusting member in a predetermined test position, and thereafter, with the aid of an adjusting arrangement, the pump is thereafter fitted into a pump mounting of the internal combustion engine and is secured therein, comprising the following method steps :—

(a) the plug-in pump is fitted into a test stand reception bore, which corresponds to pump mounting of the engine, and a coupling part of a delivery quantity adjusting member is retained by a counterpart coupling of an adjusting rod of the test stand which corresponds to a regulating rod of the engine, in a test position (such a full load position) which possibly differs from a reproducible basic test position (such as central position) by a predetermined distance (a);

(b) in the case of a test bench driven at a predetermined test speed, the delivery quantity of the plug-in pump is measured and the pump is angularly displaced in the test stand until the delivery corresponds to a desired delivery quantity and;

(c) the adjusted-angular position of the plug-in pump associated with the desired delivery quantity is recorded on the plug-in pump by providing on the plug-in pump a first adjusting aid of an adjusting arrangement by means of a device located on the test stand;

(d) before the plug-in pump is fitted to the internal combustion engine, the engine regulating rod is brought into the basic test position and is locked in that position;

(e) a dummy pump which has a coupling part fixed in a position which corresponds to the coupling part of the delivery quantity adjusting member of the plug-in pump when located in the basic test setting, and which has a second device for providing on the pump mounting a second adjusting aid, associated with the first adjusting aid, is inserted into the pump mounting and thereby couples the fixed coupling part to a counterpart coupling of the engine

regulating rod, the second adjusting aid is provided on the pump mounting by means of the second device, and the dummy pump is removed;

(f) after its pre-stroke has been adjusted, the plug-in pump is inserted into the pump mounting, and the delivery quantity adjusting member is connected to the engine regulating rod;

(g) the plug-in pump is brought into a fitted position in which the first adjusting aid is in register with the second adjusting aid on the pump mounting, and the plug-in pump is secured to the internal combustion engine in this fitted position;

(h) a limiting stop for the engine regulating rod is adjusted to a full load position corresponding to or associated with the test position, and

(i) the engine regulating rod locked in the method step d is released no earlier than after the method step e.

Compl. Specn. 36 pages.

Drg. 3 sheets.

CLASS : 185-C.

158735

Int. Cl. : A 23 f 3/02.

**TEA EXTRACTION PROCESS.**

Applicant : UNILEVER PLC OF UNILEVER HOUSE, BLACKFRIARS, LONDON EC4, ENGLAND.

Inventor : 1. NORMAN STUART CRESWICK.

Application No. 1484/Cal/82 filed December 23, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A process for extracting tea from tea leaf comprising the steps of :—

- (a) contacting the tea leaf with aqueous solvent to extract tea leaf solids;
- (b) separating the aqueous extract from the spent tea leaf;
- (c) adding an acid to the spent tea leaf to reduce the pH thereof to within the range of about 2.0—3.0;
- (d) subjecting the acidified spent tea leaf to further extraction with aqueous solvent at pressures of about 80—100 psig and temperatures of about 140—170° C for at least 4 minutes; and
- (e) separating the remaining tea leaf solids from the aqueous solvent to leave a high temperature/high pressure aqueous extract.

Compl. Specn. 22 pages.

Drg. 1 sheet.

CLASS : 37-A & B.

158736

Int. Cl. : B 04 b 1/00, 5/00.

**IMPROVEMENTS IN OR RELATING TO CENTRIFUGAL SEPARATORS.**

Applicant : VEB KOMBINAT FORTSCHRITT, LANDMASCHINEN, 8355 NEUSTADT IN SACHSEN BERGHAUS STRASSE 1, GERMAN DEMOCRATIC REPUBLIC.

Inventor : 1. KURT STELLER.

Application No. 181/Cal/83 filed February 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A centrifugal separator comprising a bowl casing or body (1), a bowl cover (2) clamped on the casing or body, and hermetically sealed therewith by a clamp, collar or ring (3), a piston type slide valve (4) adapted to be moved periodically vertically to provide an annular clearance adjacent the upper edge of the seal between the casing or body and the cover and a stack of sheet metal cones and the slide valve forming a separating space and a sludge space below the separating space, which is shaped as a hollow double cone characterised in that the contour (11) of the sludge space taken in the central vertical section of the bowl is a curve and not a straight line.

Compl. Specn. 13 pages.

Drg. 1 sheet

CLASS : 168-D.

158737

Int. Cl. : B 60 q 1/06.

## SIGNAL APPARATUS FOR TRANSPORTATION VEHICLES.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTRE, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. RICHARD STEPHEN Rhoton, 2. GREGORY JOSEPH WALZ.

Application No. 213/Cal/83 filed February 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A signal apparatus for a vehicle having a front end with a signal sensing antenna and a rear end and operative with a roadway track having a conductive track-member connected to ground potential, said apparatus including first and second signal rails coupled with a first signal transmitter for providing a first control signal current in a first conductive path to electromagnetically induce a first signal in the front of said vehicle, said first and second rails being coupled with a second transmitter for providing a second control signal current in a second conductive path to electromagnetically induce a second signal in the rear of said vehicle, with said vehicle being responsive to a control signal rail current in front of the vehicle above a predetermined threshold level and including a first conductive circuit, the apparatus comprising :—

first signal-collector means carried at the front end of the vehicle and providing a normal low impedance contact connection forming between the first and second signal rails,

second signal-collector means carried at the rear end of the vehicle and providing a normal low impedance contact connection between the first and second signal rails,

impedance means connected within one of the first and second conductive paths and electrically bridging said first and second signal collector means to reduce said one control signal current in the second circuit to below said predetermined threshold level.

Compl. Specn. 20 pages.

Drg. 5 sheets.

CLASS : 32-C.

158738

Int. Cl. : C 07 f 7/02.

## A PROCESS FOR THE PREPARATION OF OXYHYDRODOSILANES.

Applicant : UNION CARBIDE CORPORATION, AT OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT (06817), UNITED STATES OF AMERICA.

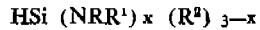
Inventors : 1. BERNARD KANNER, 2. STEVEN PHILIP HOPPER.

Application No. 210/Cal/83 filed February 21, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 13 Claims

A process for the preparation of oxyhydrosilanes which comprises reacting a silane of the general formula



wherein R, R<sup>1</sup> and R<sup>2</sup> are independently an aliphatic or aromatic, substituted or unsubstituted, saturated or unsaturated hydrocarbon radical having from one to eight carbon atoms inclusive and where R and R<sup>2</sup> may also be hydrogen and where R<sup>2</sup> may also be alkoxy where x has a value of from one to three with a compound containing a group NOH having a general formula shown in Fig. 1 of the accompanying drawing,

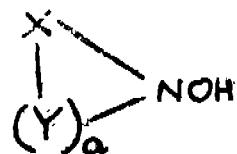


Fig. 1

wherein X is R<sup>3</sup>R<sup>4</sup>C=, R<sup>5</sup>C= or R<sup>6</sup>, Y is a R<sup>7</sup> and a is 0 or 1 and in which R<sup>3</sup> and R<sup>4</sup> are independently an aliphatic or aromatic, substituted or unsubstituted, saturated or unsaturated hydrocarbon radical having from one to twelve carbon atoms inclusive in the presence of a catalyst as herein described at a temperature between —50°C to 150°C where approximately one equivalent of alcohol is present per mole of the silicon-nitrogen bond and where the catalyst concentration is equal to about 0.01 to 10 mole per cent of the silicon-nitrogen bonds.

Compl. Specn. 17 pages.

Drg. 1 sheet.

## OPPOSITION PROCEEDINGS

## (1)

The opposition entered by M/s. Orissa Cement Limited to the grant of a patent on the application for patent no. 154563 made by Shri Krishan Kumar Gupta as notified in Gazette of India, Part III : Section 2 dated 4th May, 1985 has been allowed and the grant of a patent on the application has been refused.

## (2)

An opposition has been entered by Director General, Research, Design & Standards Organisation to the grant of a patent on application No. 155991 made by Dr. Anil Krishna Kar as notified in the Gazette of India, Part-III, Section 2 dated the 26th October, 1985 has been ordered that the application for patent shall be withdrawn.

## (3)

An opposition has been entered by National Council for Cement Buildings Materials to the grant of a patent on application No. 156893 made by Dr. Anil Krishna Kar as notified in the Gazette of India, Part-III, Section 2 dated the 3rd May, 1986 has been withdrawn.

## (4)

An opposition has been entered by Research, Designs & Standards Organisation to the grant of a patent on application No. 156893 made by Dr. Anil Krishna Kar as notified in the Gazette of India, Part-III, Section 2, dated the 14th June, 1986 has been withdrawn.

## (5)

An opposition has been entered by M/s. Piaggio & C.S.P.A. Italy to the grant of a patent on application for patent No. 157821 made by M/s. Bajaj Auto Limited, Pune.

## (6)

An opposition has been entered by M/s. Honda Giken Kogyo Kabushiki Kaisha, Japan to the grant of a patent on application for patent No. 157824 made by M/s. Bajaj Auto Limited, Pune.

(7)

An opposition has been entered into by M/s. Piaggio & C. SPA., Italy to the grant of a patent on application for patent No. 157826 made by M/s. Bajaj Auto Limited, Pune.

(8)

An opposition has been entered by Elpro International Limited to the grant of a patent on application No. 157937 made by Mitsubishi Denki Kabushikikaisha.

#### HIGH COURT PROCEEDINGS

Appeal preferred under Section 116 of the Patents Act, 1970 in respect of Patent Application No. 137930 by the Assistant Design Engineer (Wagon), R.D.S.O. has been dismissed by the Hon'ble Justice Mrs. Pratibha Banerjee in the High Court of Calcutta.

#### CLAIM UNDER SECTION 20 (1) OF THE PATENTS ACT, 1970.

The claim made by National Diary Development Board under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 157048 in their name has been allowed.

#### CORRECTION OF CLERICAL ERRORS

Under Section 78 (1) of the Patents Act, 1970 certain clerical errors occurring in the application specification and Patent in respect of Patent No. 154645 was corrected on 5th December, 86.

#### PATENTS SEALED

152974 153869 154199 155845 155895 155931 155995 156188  
 156194 156197 156262 156354 157569 156577 156578 156581  
 156587 156589 156590 156595 156658 156660 156673 156674  
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#### RENEWAL FEES PAID

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 15621 156652 156725 156729 156767 156768 156834 157175

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 157295, Manav Enterprises, B-59-C, C. Colony, Rana Pratap Bagh, Delhi-11007, "JUICER". 30th July, 1986.

Class. 3. No. 157067, Reckitt & Colman of India Limited, 41, Chowinghee Road, Calcutta-700071, West Bengal, India, an Indian Company. "BOTTLE". 15th May, 1986.

Class. 3. No. 157116, Dr. Virendra Singh, C-86, Shastri Nagar, Jaipur (Rajasthan) of Indian Nationality "Medical Instrument". 4th June, 1986.

Class. 3. No. 157183, Khimasia Plastics Private Limited, a Private Limited Company, registered under the Indian Companies Act, Incorporated in India, having their Registered Office at 50 Kazi Sayed Street, Bombay-400003 (State of Maharashtra) India, a "Container". 20th June, 1986.

Class. 3. No. 157204, Royal Industries, 3541-Qutab Road; Delhi-110006, India, an Indian Partnership Concern "TRAY". 20th June, 1986.

Class. 3. No. 157221, Peico Electronics and Electricals Limited, of Shivasagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay 18 (WB), Maharashtra State, India, an Indian Company. "a Mono Cassette Recorder". 1st July, 1986.

Class. 3. No. 157262, Tulsi Das Drolia, of 28/7 Maulana Abul Kalam Azad Road, Howrah 1, India, West Bengal, an Indian National. "Container". 14th July, 1986.

Class. 3. No. 157272, Minni Trading Corporation, 5-B, Kanchan Villa, Goraswadi, Malad (West), Bombay-400064, Maharashtra, India, an Indian Partnership Firm. "Pierce Pourer" 17th July, 1986.

Class. 3. No. 157274, Syed Ismail Najifi, a citizen of India, Proprietor, Trader and Merchant, trading as Palghat Oil Industries, 16-11-581/1, Dilsukhanagar Hyderabad-500 660, (Andhra Pradesh State), India. "BOTTLE". 21st July, 1986.

Class. 4. Nos. 157120, 157121, 157122, 157123, Ding-In Stone Ind. Co. Ltd., 654-3, Yeoksam-Dong, Kangnam-Ku Seoul, Korea. "Grave Stone". 6th June, 1986.

Class. 4. No. 157124, Dong-In Stone Ind. Co., Ltd., 654-3 Yeoksam-Dong, Kangnam-Ku Seoul Korea. "Lantern". 6th June, 1986.

Class. 11. No. 157247, Cabot Corporation, a corporation of the State of Delaware, U.S.A., whose Principal address is 125 High Street, Boston, Massachusetts, U.S.A. an "Earplug". 10th July, 1986.

Class. 12. No. 157248, Cabot Corporation, a corporation of the State of Delaware, U.S.A., whose principal address is 125 High Street, Boston, Massachusetts, U.S.A., an "Earplug". 10th July, 1986

*Extn. of Copyright for the Second period of five years.*

Nos. 155993, 155995, 156173, 156500..... Class-3.

*Extn. of Copyright for the Third period of five years.*

Nos. 155993, 155995, 156173, 156500..... Class-3.

Name Index of Applicants for Patents for the month of March, 1986 (Nos. 154/Cal/86 to 259/Cal/86, 79/Bom/86 to 112/Bom/86, 141/Mas/86 to 232/Mas/86 and 181/Del/86 to 298/Del/86).

Name & Appln. No.

—A—

AB Akerlund & Rausing.—188/Mas/86.

AE PLC.—184/Mas/86.

AVI Gesellschaft fur Verbrennungskraft-maschinen und Messtechnik mbH. Prof. Dr. Dr. H. C. Hans List.—286/Del/86.

Acme Resin Corporation.—200/Mas/86.

## Name &amp; Appln. No.

Aerospatiale Societe Nationale Industrielle.—245/Del/86.  
 Air Preheater Company, Inc., The.—253/Cal/86.  
 Akzo N. V.—204/Mas/86.  
 Allan International Manufacturing Pty, Ltd.—218/Cal/86.  
 Allied Corporation.—201/Mas/86.  
 Alsthom.—295/Del/86.  
 Aluminium Pechiney.—183/Mas/86.  
 Amberger Kabinenwerke GMBH.—175/Cal/86.  
 American Can Company.—249/Cal/86.  
 American Cyanamid Company.—200/Cal/86.  
 Ametex AG.—158/Mas/86.  
 Amsted Industries Incorporated.—192/Mas/86, 231/Mas/86.  
 Anico Marketing, Inc.—193/Del/86.  
 Armstrong World Industries, Inc.—274/Del/86.  
 Atlantic Richfield Company.—165/Mas/86.  
 Azionaria Contruzioni Machine Automatiche A. C. M. A. S. p. A.—213/Del/86, 226/Del/86.

## —B—

BASF Farben + Fasern Aktiengesellschaft.—189/Del/86, 194/Del/86.  
 BBC Brown, Boveri & Company Limited.—202/Mas/86.  
 BP Chemicals Limited.—207/Del/86, 221/Del/86.  
 BSH Electronics Ltd.—230/Del/86.  
 Balaji, K. S. 191/Mas/86.  
 Bandopadhyay, N. K.—220/Cal/86.  
 Banerjee, G.—252/Cal/86.  
 Banerjee, P.—291/Del/86.  
 Banerjee, A. K.—170/Cal/86, 192/Cal/86, 193/Cal/86, 194/Cal/86.  
 Basu, S. N.—251/Cal/86.  
 Bata Limited.—231/Cal/86.  
 Beloit Corporation.—163/Cal/86.  
 Belorussky Tekhnologichesky Institut Imeni S. M. Kirova.—222/Cal/86.  
 Bergood Pty. Limited.—198/Cal/86.  
 Bhatia, K. B.—104/Bom/86.  
 Bhattacharyya, A.—178/Cal/86.  
 Bishop, A. E.—225/Cal/86.  
 Boenisch, D.—244/Cal/86.  
 Bonnaval-Lamothe, M.—190/Del/86.  
 Boulan, J.—190/Del/86.  
 British Petroleum Company P.L.C., The.—238/Del/86.  
 British Steel Corporation.—189/Mas/86.  
 Burger, D.—290/Del/86.

## —C—

CRA Services Limited.—207/Cal/86.  
 Carroll, N.—219/Cal/86.  
 Caterpillar Tractor Co.—195/Mas/86.  
 Cauzin Systems Incorporated.—200/Del/86, 203/Del/86.  
 Celanese Corporation.—209/Cal/86.  
 Chakraborty, P. C.—205/Cal/86.  
 Chimica Del Friuli S. p. A.—186/Mas/86.  
 Chol, J. C.—255/Del/86.

## Name &amp; Appln. No.

Chronar Corp.—223/Del/86.  
 Coetzee, A. O.—206/Del/86.  
 Colgate Palmolive Company.—198/Del/86, 222/Del/86, 246/Del/86, 254/Del/86, 275/Del/86, 283/Del/86, 284/Del/86.  
 Combustion Engineering, Inc.—201/Cal/86.  
 Council of Scientific and Industrial Research.—187/Del/86, 195/Del/86, 196/Del/86, 204/Del/86, 205/Del/86, 227/Del/86, 264/Del/86, 276/Del/86, 277/Del/86, 278/Del/86, 279/Del/86, 280/Del/86, 281/Del/86, 282/Del/86, 292/Del/86, 293/Del/86.  
 Crosby Valve & Gage Company.—159/Mas/86.

## —D—

Dr. C. Otto & Comp. GmbH.—179/Mas/86.  
 Dana Corporation.—171/Mas/86.  
 Date, M. A. (Dr.) & Others.—107/Bom/86.  
 Daume, A.—180/Cal/86.  
 Degussa Aktiengesellschaft.—255/Cal/86, 256/Cal/86.  
 Derwentside Laboratories Limited.—176/Mas/86, 177/Mas/86.  
 Dhabhade, S. M. (Capt).—86/Bom/86.  
 Diversified Products Corporation.—164/Mas/86.  
 Donogues, J. P.—190/Del/86.  
 Dow Chemical Company, The.—161/Cal/86.  
 Dronningborg Maskinfabrik A/S.—196/Cal/86.  
 Du Pont Canada Inc.—165/Cal/86, 166/Cal/86, 174/Cal/86.  
 Ducati Energia S. p. A.—208/Del/86.  
 Dumas Et Inchauspe.—202/Del/86.  
 Duffaut, C. N.—190/Del/86.  
 Duraiswamy, N. N.—196/Mas/86, 197/Mas/86.  
 Dynamit Boble AG.—175/Cal/86.  
 Dziewulski, D.—223/Mas/86.

## —E—

E. I. Du Pont De Nemours and Company.—165/Cal/86, 166/Cal/86.  
 EPOC Limited.—169/Mas/86.  
 Etablissements Morel-Ateliers Electromecaniques De Faverges.—190/Cal/86.  
 Exxon Research and Engineering Company.—252/Del/86.

## —F—

Fadte, D. G.—102/Bom/86.  
 Fasern Aktiengesellschaft.—189/Del/86, 194/Del/86.  
 Fidia S.p.A.—248/Cal/86.  
 Fontlladosa, E. B.—228/Del/86.  
 Fried Krupp Gesellschaft Mit Beschränkter Haftung.—173/Cal/86, 179/Cal/86, 217/Cal/86.  
 Fritz Studer A. G.—89/Bom/86.  
 Fuel Tech, Inc.—241/Del/86.  
 Fuller Company.—258/Del/86.

## —G—

GKN Technology Limited.—287/Del/86.  
 Gea Engrgriesystem-technik GmbH & Co.—182/Mas/86.  
 General Electric Company.—162/Cal/86.

Name & Appln. No.
General Foods Corporation.—294/Del/86.
George, P. V.—154/Mas/86.
Giovanni, P.—258/Cal/86.
Goodyear Aerospace Corporation.—239/Del/86.
Goodyear Tire & Rubber Company, The.—242/Del/86.
Grossman, S. J.—259/Del/86.

## —H—

Halim, W.—194/Mas/86.
Hartl, E.—177/Cal/86.
Hartmann & Braun Aktiengesellschaft.—251/Del/86.
Hayden, K. J.—171/Cal/86.
Hindustan Lever Limited.—80/Bom/86, 92/Bom/86, 93/Bom/86.
Hitachi, Ltd.—230/Cal/86.
Hoechst Aktiengesellschaft.—210/Cal/86, 211/Cal/86, 235/Cal/86, 238/Cal/86, 239/Cal/86, 240/Cal/86, 242/Cal/86, 243/Cal/86, 254/Cal/86.
Hoesch Maschinenfabrik Deutschland A. G.—227/Cal/86.
Huck Manufacturing Company.—247/Cal/86.
Hvidsten, T. E.—207/Mas/86.
Hydro Quebec.—244/Del/86.

## —I—

I. A. E. C. India Limited.—111/Bom/86.
IDL Chemicals Limited.—211/Mas/86.
Imperial Chemical Industries PLC.—257/Del/86.
Inarc Limited.—87/Bom/86.
Instituto Guido Donegani S.p.A.—185/Cal/86.
International Metals Reclamation, The.—187/Mas/86.
International Paint Public Limited Co.—224/Del/86.
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## —J—

Jain Die Caster Pvt. Ltd.—247/Del/86.
Jain, V.—181/Del/86, 182/Del/86, 183/Del/86.
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Kabushiki Kaisha Kobe Seiko Sho.—155/Mas/86.
Kabushiki Kaisha Meidensha.—158/Cal/86.
Kabushiki Kaisha Toshiba.—88/Bom/86, 105/Bom/86, 148/Mas/86, 193/Mas/86, 219/Mas/86.
Kale, S. N.—197/Del/86.

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Keith, G. N.—259/Del/86.
Kembla Coal & Coke Pty. Limited.—199/Cal/86.
Kennecott Corporation.—214/Del/86.
Kenrich Petrochemicals, Inc. 249/Del/86.

Klevsky Politekhnichesky Institut Imeni 50-Letiya Velikoi Oktyabr'skoi Sotsialisticheskoi I Revoljutsii II.—234/Cal/86.
Kinergy Corporation.—191/Cal/86.
Kirk, F. G.—235/Del/86.
Kirloskar Electric Company Limited.—205/Mas/86, 206/Mas/86.

## Name &amp; Appln. No.

Klas Engineering Private Limited.—190/Mas/86.
Klein, Schanzlin & Becker Aktiengesellschaft.—155/Cal/86, 203/Cal/86.
Kopelowicz, A.—152/Mas/86.
Kulkarni, P. K.—85/Bom/86.
Kulkarni, V. P.—85/Bom/86.
Kumar, S.—237/Del/86.
Kuttan, P. D. & Others.—110/Bom/86.
Kyowa Gas Chemical Industry Co. Ltd.—160/Cal/86.

## —L—

L. B. C. Services (Proprietary) Limited.—209/Del/86.
Lacrex Brevetti S. A.—218/Mas/86.
Larsen & Toubro Limited.—81/Bom/86.
Lockheed Corporation.—188/Del/86.
Lubrizol Corporation, The.—201/Del/86.
Lucas Industries Public Limited Company.—150/Mas/86, 151/Mas/86, 199/Mas/86, 203/Mas/86.

## —M—

Mackay, D. H. C.—298/Del/86.
Madura Traders & Engineers.—184/Del/86.
Maghemite, Inc.—199/Del/86.
Marley Cooling Tower Company, The.—224/Mas/86.
Maschinenfabrik Rieter AG.—142/Mas/86, 209/Mas/86.
Massey Fergus-on Manufacturing Ltd.—196/Cal/86.
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McGraw-Edison Company.—189/Cal/86, 197/Cal/86.
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Meric Industries Inc.—259/Cal/86.
Metallgesellschaft Aktiengesellschaft.—157/Cal/86.
Mitru, B.—233/Cal/86.
Mitra, B. P.—79/Bom/86.
Mitra, S.—79/Bom/86.
Mitsuba Electric Manufacturing Co. Ltd.—214/Cal/86.
Mitsubishi Denki Kabushiki Kaisha.—214/Mas/86.
Mitsui Toatsu Chemicals, Incorporated.—160/Cal/86, 204/Cal/86, 241/Cal/86, 246/Cal/86.
Mobil Oil Corporation.—146/Mas/86, 213/Mas/86.
Mocord Heat Transfer Corporation.—147/Mas/86.
Mohamed, V. A.—160/Mas/86, 161/Mas/86, 162/Mas/86.
Moosa, K. M.—153/Mas/86, 167/Mas/86, 168/Mas/86.
Morgan Construction Company.—253/Del/86.
Mull, V.—289/Del/86.
Mullenberg, R.—208/Mas/86.
Muthu, T.—181/Mas/86.
Muthukrishnan, M.—141/Mas/86.
Muvek, S.—225/Mas/86.

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NGK Insulators Ltd.—212/Cal/86.
NL Industries, Inc.—159/Cal/86.
N. P. Philips' Gloeilampenfabrieken.—186/Cal/86.
Nambiar, V. P.—109/Bom/86.

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Narayan, G. K.—109/Bom/86.	Sab Nife AB.—192/Del/86.	
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Neven, J. J.—229/Del/86.	Schlumberger Electronics (UK) Limited.—245/Cal/86.	
Nikam, L. S.—96/Bom/86, 99/Bom/86, 112/Bom/86.	Schmoock, H.—187/Cal/86.	
Norman, J. J.—229/Del/86.	Schweizerische Isola-Werke.—236/Del/86.	
Norman, R.—229/Del/86.	Sen, M. (Dr.)—181/Cal/86.	
Noto, V. H.—265/Del/86.	Seshadri, K.—191/Mas/86.	
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Onagul, S. A.—186/Del/86.	Shah, A. S.—83/Bom/86.	
Oronizio De Nore Implanti electrochimici S.p.A.—106/Bom/86.	Sharnia, B. A. V. K.—166/Mas/86.	
Owens-Illinois, Inc.—230/Mas/86.	Sharma, M. S.—220/Del/86.	
Oy Lohja Ab.—164/Cal/86.	Shelby Williams Industries, Inc.—243/Del/86.	
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Palan, D. G.—149/Mas/86.	Siebe Gorman & Company Limited.—144/Mas/86, 145/Mas/86.	
Palani, N. S.—220/Mas/86.	Siemens Aktiengesellschaft.—188/Cal/86.	
Paller, M. S.—223/Mas/86.	Simkens, M. C. P. L.—208/Cal/86.	
Panetronic Auto (Pvt.) Ltd.—288/Del/86.	Singh, S.—233/Del/86.	
Pantalone, A.—296/Del/86.	Siraj, B.M.H.—160/Mas/86.	
Parekh, J. C.—84/Bom/86.	Sloan, C. R.—223/Cal/86.	
Parikh, R. H.—82/Bom/86.	Societe des Produits Nestle S. A.—185/Mas/86, 222/Mas/86.	
Patralekh, K.—224/Cal/86.	Societe Lorraine de Laminage Continu-SOLLAC.—256/Del/86.	
Paul Wurth S. A.—191/Del/86.	Societe Nationale Des Peudres Et Explosifs.—297/Del/86.	
Piccioli, D.—206/Cal/86.	Sola International Holdings Limited.—228/Mas/86.	
Pilkington, D.—206/Del/86.	Sovenics Solar Systems.—273/Del/86, 285/Del/86.	
Plessey Overseas Limited.—212/Mas/86.	Standard Batteries Limited, The.—91/Bom/86.	
Poseco International Limited.—229/Mas/86.	Standard Oil Company, The.—260/Del/86, 266/Del/86, 268/Del/86, 269/Del/86, 272/Del/86.	
President & Fellows of Harvard College.—262/Del/86.	Stein Industrie.—231/Del/86, 232/Del/86.	
—R—		
Raffineria Olii Lubrificanti "R.O.L." S.p.A.—237/Cal/86.	Sudarshan, S.—215/Mas/86.	
Ranjan Universal Exports (mftrs.) Pvt. Ltd.—173/Mas/86, 174/Mas/86.	Sulzer Brothers Limited.—182/Cal/86, 257/Cal/86.	
Ramanathan, J.—143/Mas/86.	—T—	
Ramnani, V. B.—198/Mas/86.	Teikoku Hormone Mfg. Co. Ltd.—156/Mas/86.	
Rao, M.P.—97/Bom/86, 98/Bom/86.	Texas A & H University System.—172/Mas/86.	
Ray, P.—103/Bom/86.	Thiagarajan, V.—180/Mas/86.	
Ray, R. K.—251/Cal/86.	Toyo Engineering Corporation.—246/Cal/86.	
Raychem Corporation.—175/Mas/86.	Tula Silencers (Proprietary) Limited.—178/Mas/86.	
Raychem Limited.—232/Mas/86.	—U—	
Revlon, Inc.—154/Cal/86.	UOP Inc.—219/Del/86, 240/Del/86, 248/Del/86.	
Ribault, L. L.—190/Del/86.	VSM Corporation.—263/Del/86.	
Richardson Chemical Company.—271/Del/86.	Unie Van Kunststoffabriken B. V.—226/Mas/86.	
Richter Gedeon Vegyeszeti Gyar R. T.—213/Cal/86.	Unimetal Societe Francaise Des Aciers Longs.—256/Del/86.	
Rimrock Corporation.—202/Cal/86.	Union Carbide Corporation.—267/Del/86, 163/Mas/86, 227/Mas/86.	
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Routh, P. K.—215/Cal/86.	Universal Luggage Manufacturing Company Private Limited.—100/Bom/86, 101/Bom/86.	
Ruyter, J. A. D.—290/Del/86.	Urban Transportation Development Corporation Ltd.—250/Del/86.	
Ruyter, J. P. D.—290/Del/86.	—V—	
	Vaidya, J. G.—94/Bom/86, 95/Bom/86.	
	Vallourec.—172/Cal/86.	
	Varma, B. K. (Dr.)—168/Cal/86.	

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Vimal Industrial Products.—90/Bom/86.	Viigidroprivod.—229/Cal/86.
Voest-Alpine Aktiengesellschaft.—176/Cal/86, 226/Cal/86.	—W—
Vossloh-Werke GmbH.—156/Cal/86.	Willis, R. R.—210/Mas/86.
Vsesojuzny Institut Po Proektirovaniyu Organizatsii Energeticheskogo Stroitelstva Orgenergostrol.—221/Cal/86, 228/Cal/86.	Wagner, W. (Dr. Med.)—232/Cal/86,
Vsesojuzny Nauchno-Issledovatel'sky I Ispytatelny Meditsinkoi Tekhniki.—216/Cal/86.	Western Biotechnology Limited.—157/Mas/86.
Vsesojuzny Nauchno-Issledovatel'sky Proektno-Konstruktorsky I Technologichesky Institut Istochnikov Sveta Imeni A. N. Lodygina.—236/Cal/86.	—Y—
Vsesojuzny Nauchno-Issledovatel'sky I Proektokonsttorsky Institut Promyshlennykh Gidroprivodov I Gidroavtomatiki	Yang, T. H.—195/Cal/86.
	Zhong, L. Y.—250/Cal/86.

R. A. ACHARYA,  
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